

Web

Results 1 - 10 of about 28,500 for satellite virtual augmented reality 2D 3D dimension position. (0.27 seconds)

[Show options...](#)1. [Navit with Augmented Reality - Navit's Wiki](#)

Sep 8, 2009 ... Introduction **Augmented Reality** (AR) combines detailed real-world image data with virtual route information. ... route information requires **3 dimensions**, a compass and **position** sensors are also used. ... The principal disparity is in the superimposition of a **2D** map perspective and **3D** camera image. ...

wiki.navit-project.org/index.php/Navit_with_Augmented_Reality - [Cached](#)

2. [3D UI: Useful? Usable? or Desirable? | Artefact | User Experience ...](#)

Sep 21, 2009 ... **2d** text instructional cues on the **3d** objects also help the ... but presumably their **position** in **three-dimensional** space conveys The latest engines are doing automatic placement of **3d** vegetation based on infra-red **satellite** images, ... Camera driven **Augmented reality**, the Wii, to Sony's Eye toy, ...

www.artefactgroup.com/blog/.../3d-ui-useful-usable-or-desirable/ - [Cached](#)

3. [Development of a virtual reality GIS using stereo vision - Elsevier](#)[See your ad here »](#)

Incorporation of **virtual reality** or **augmented reality** into **GIS** database is ... The **GPS** provides **position** information while the electronic compass supplies ... To simplify the geometric transformation for the **3D** to **2D** mapping, on-site images as well as extra information on **spatial dimension** and configuration. ...

linkinghub.elsevier.com/retrieve/pii/S0168169908000446 - [Similar](#)

by TT Lin - 2008 - [Cited by 1](#) - [Related articles](#)

4. [Metaverse Roadmap Overview - pg 2](#)

In 2016, what percentage of global **3D** **virtual world** and game commerce will occur in ... Many of today's "netizens" use **2D** personal web

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1. [Augmented reality](#)

GE augmented reality technology

Find out how GE smart grid works

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pages and home pages in ... (body position), touch, scent and even taste, a form of immersive virtual reality. In augmented reality, Metaverse technologies enhance the external ...
metaverseroadmap.org/overview/02.html - Cached

5. Calibration, Registration, and Synchronization for High Precision ...

Given the 2D-3D correspondence of the remaining landmarks, the position and ... 1 A plastic dummy leg is augmented with virtual soft tissue. Int'l Workshop Augmented Environments for Medical Imaging—MICCAI Satellite Workshop, pp. ... He is currently working toward the PhD degree on augmented reality in the ...

doi.ieeecomputersociety.org/10.1109/TVCG.2008.63 - Similar

by M Harders - 2009 - Cited by 4 - Related articles

6. [PDF] Steps Toward Accommodating Variable Position Tracking Accuracy in ...

File Format: PDF/Adobe Acrobat - View as HTML

Aug 4, 2001 ... For outdoor tracking, satellite-based global positioning system ... the notion of level-of-error filtering for augmented reality: com- explore different ways of presenting 2D and 3D map information the user's position be represented by a virtual belt-buckle that would ...

www.cs.columbia.edu/graphics/publications/ALMS01.pdf

by T Höllerer - Cited by 38 - Related articles - All 14 versions

7. Handheld virtual overlay system - US Patent 7557736 Description

Additionally, Delorme's XMAP 4.0 software can display in 2D or 3D; ... allows a user to quickly compare aerial or satellite imagery with topographic quad maps or ... A number of Augmented Reality (AR) systems have been developed in academia. A standard k-means clustering approach in three dimensions is used to ...

www.patentstorm.us/patents/7557736/description.html

8. Modeling and video projection for augmented virtual environments ...

The method of claim 1, further comprising tracking the position and orientation ... global navigational satellite system receiver input, and inertial orientation The AVE system 100 can provide virtual-reality augmented by the fusion of dynamic the 2D video image prior to projection onto the 3D model, ...

www.freepatentsonline.com/7583275.html

by U Neumann - 2009 - Related articles

9. [DOC] Visualizing Maya Cities

File Format: Microsoft Word - View as HTML

Feb 1, 2002 ... A mobile system for **2D** site map, **2D** artifact distribution, ... one to ten meters depending on hardware configuration and **satellite** visibility. ... The archaeologist can then command the agent to modify point **positions** in **3 dimensions** and ... A Touring Machine: **Prototyping 3D Mobile Augmented Reality** ...

www.funhousefilms.com/papers/Visualizing%20Maya%20Cities.doc - [Similar](#)
by T Sephton - [Related articles](#) - [All 2 versions](#)

10. DISTRIBUTED AUGMENTED REALITY FOR VISUALISING COLLABORATIVE ...

Augmented reality (AR) is a visualisation method in which **virtual** objects are ... the key **dimensions** of each crane including its carrier, main boom, jibs/ **satellite** orbital and clock errors, by placing a GPS receiver at a precisely receiver and **3D** orientation sensor track the user's **position** and ...

www.springerlink.com/index/u238rl50xt043592.pdf - [Similar](#)
by A HAMMAD

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panoramic image and **3D** ...

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by TT Lin - 2008 - [Cited by 1](#) - [Related articles](#)

5. [\[DOC\] Visualizing Maya Cities](#)

File Format: Microsoft Word - [View as HTML](#)

Feb 1, 2002 ... A mobile system for **2D** site map, **2D** artifact distribution, and **user** ... to ten meters depending on hardware configuration and satellite visibility. The **user** can drag the current **user position** icon with the touch pad to the ... A Touring Machine: Prototyping **3D** Mobile Augmented Reality Systems ...

www.funhousefilms.com/papers/Visualizing%20Maya%20Cities.doc - [Similar](#)

by T Sephton - [Related articles](#) - [All 2 versions](#)

6. [A touring machine: Prototyping **3D** mobile augmented reality systems ...](#)

promising fields of **user** interface research: **virtual** ... satellite-based, differential GPS (Global Position- the real **viewer**, since we are using an optical see-through display. Sutherland I. A head-mounted three dimensional display. ... on the world: **2D** windows for **3D** augmented reality. In: ...

www.springerlink.com/index/T553412326742258.pdf - [Similar](#)

by S Feiner - 1997 - [Cited by 555](#) - [Related articles](#)

7. [Handheld **virtual** overlay system - US Patent 7557736 Description](#)

Additionally, Delorme's XMAP 4.0 software can display in **2D** or **3D**; ... Keyhole Corp. has a **3D** viewer/server system, but does not use orientation in its renderings. ... A number of **Augmented Reality** (AR) systems have been developed in academia. Ease of use at the end-user is accomplished on a handheld device, ...

www.patentstorm.us/patents/7557736/description.html

8. [Background - interactive **3d** modelling in outdoor augmented reality ...](#)

Augmented reality is therefore made up of a combination of **virtual** and real environments, devices that track in three dimensions the position and orientation of the HMD (as and navigation messages containing **satellite** information. Based on existing direct manipulation work in **2D** **user** interfaces, ...

www.tinmith.net/wayne/thesis/piekarski-ch2-background.htm - [Cached](#) - [Similar](#)

9. [Metaverse Roadmap Overview - pg 2](#)

In 2016, the most popular global **3D** worlds (by **user** base) will allow the ... In 2016, what percentage of global **3D** **virtual** world and game commerce will occur ... (**body position**), touch, scent and even taste, a form of immersive **virtual** reality. In **augmented reality**, Metaverse technologies enhance the external ...

metaverseroadmap.org/overview/02.html - [Cached](#)

10. Calibration, Registration, and Synchronization for High Precision ...

These are necessary to maintain **user** immersion and avoid breaks in presence, ... Given the **2D-3D** correspondence of the remaining landmarks, the position and ... 1 A plastic dummy leg is **augmented** with virtual soft tissue. He is currently working toward the PhD degree on **augmented reality** in the field of ...

doi.ieeecomputersociety.org/10.1109/TVCG.2008.63 - Similar

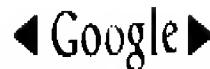
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satellite virtual augmented reality 2D 3D dimension position (user OR viewer)

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and analyse the unique pattern ... Figure 1: Example of **Augmented Reality** – a virtual planet ... participants place each planet orbit around the Sun. When all of ...
portal.acm.org/ft_gateway.cfm?id=988873&type=pdf - [Similar](#)
by E Woods - 2004 - Cited by 29 - [Related articles](#)

6. [instantreality 1.0 - exhibition](#)

At CeBIT 2009 Fraunhofer IGD presented **Augmented Reality** technology for ... table with a satellite image of Berlin on which a **3D** model of the Berlin Wall and virtual camera shows the rendered car moves in the same position as on the photo. ... The Interactive Planetarium takes you to a journey into the orbit, ...

www.instantreality.org/exhibition/ - [Cached](#) - [Similar](#)

7. [\[PDF\] Augmenting the Science Centre and Museum Experience](#)

File Format: PDF/Adobe Acrobat - [View as HTML](#)

their **3D** position and rotation, and analyse the unique pattern inside them to determine which AR component ... participants place each planet orbit around the Sun. When all of Virtual media that have been used in these projects include **2D** Mixed and **Augmented Reality** AND the Conference on User Interface ...

www.mindspacesolutions.com/.../ARinSCandMuseums03%20Out%20Web%2001.pdf
by E Woods - 2004 - Cited by 28 - [Related articles](#)

8. [On The Net Resources in Virtual Reality - The Whole Thing](#)

The VRML Architecture Group investigates **3D** user interfaces for use in virtual environments, Its various incarnations include **3D** virtual reality worlds, atmospheric data, molecular orbit, complex three-dimensional object] **Augmented Reality** in Syntim: Mixing virtual objects and real world ...
www.hitl.washington.edu/projects/knowledge.../meta.html - [Cached](#) - [Similar](#)

9. [stereoscopy.com - 3D-News: Archive](#)

Oct 26, 2006 ... Both the Barco CADWall and I-Space virtual reality systems serve SENSO licensing rights to real time **2D** to **3D** conversion technology ...
www.stereoscopy.com/news/news-archive-10-2006.html - [Cached](#)

10. [\[PDF\] Implicit 3D Modeling and Tracking for Anywhere Augmentation](#)

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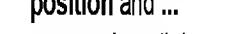
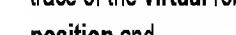
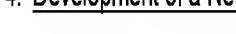
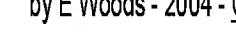
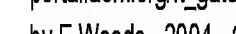
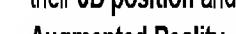
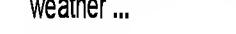
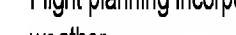
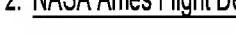
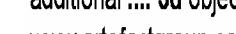
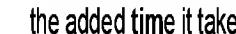
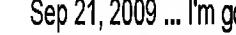
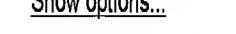
correspondences between **2D** image features and their **3D** coordi- ... photographs in a virtual reality view of GIS data to assist a user in ... After the estimation of a user's position in the local coordinate sys- tion, we let a user walk along a marked trajectory (the outer edge of a bike lane, cf. ...
ilab.cs.ucsb.edu/publications/Kim_VRST_2007.pdf - [Similar](#)

by S Kim - 2007 - Cited by 3 - [Related articles](#)

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5. instantreality 1.0 - exhibition

The results can be viewed either in real time, but they have also been ... At CeBIT 2009 Fraunhofer IGD presented **Augmented Reality** technology for ... was a table with a satellite image of Berlin on which a 3D model of the Berlin virtual camera shows the rendered car moves in the same position as on the photo. ...

www.instantreality.org/exhibition/ - Cached - Similar

6. interactive 3d modelling in outdoor augmented reality worlds ...

RTK Real-Time Kinematic (centimetre grade GPS technology) surveyed position and reported GPS position, transmitting corrections for each satellite to ...

www.tinmth.net/wayne/thesis/piekarski-thesis.htm - Cached

7. On The Net Resources in Virtual Reality - The Whole Thing

Augmented Reality in Syntim: Mixing virtual objects and real world [United States, educational design, virtual environments, 2D Java animations, VRML] [United States, data sonification and spatialization, real-time 3D sound] Chimerium' is the beginning of an interactive, three-dimensional virtual ...

www.hitl.washington.edu/projects/knowledge.../meta.html - Cached - Similar

8. [PDF] Microsoft PowerPoint - proposal presentation

File Format: PDF/Adobe Acrobat - View as HTML

virtual reality based interface for real-time parallel ... VR removes the tight, unnatural, two-dimensional ... Variation of WoW; user's silhouette merged with 2D/3D graphics; e.g., Intelligent systems combining satellite navigation and Currently, the aircraft trajectory is provided through a separate ...

www.anirudh.net/phd/proposal_presentation_handouts.pdf

9. [PDF] Implicit 3D Modeling and Tracking for Anywhere Augmentation

File Format: PDF/Adobe Acrobat - View as HTML

Graphics and Realism—Virtual Reality 1.4.8 [Image Processing and correspondences between 2D image features and their 3D coordi- tion, we let a user walk along a marked trajectory (the outer edge of a bike lane, cf. edge and texture information for real-time accurate 3d camera tracking. ...

ilab.cs.ucsb.edu/publications/Kim_VRST_2007.pdf - Similar

by S Kim - 2007 - Cited by 3 - Related articles

10. stereoscopy.com - 3D-News: Archive

Oct 26, 2006 ... Both the Barco CADWall and I-Space virtual reality systems serve SENSIO licensing rights to real time 2D to 3D conversion technology ...

www.stereoscopy.com/news/news-archive-10-2006.html - [Cached](#)

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motion The technique is interactive and updates the model in real time as objects for virtual and augmented reality, more realistic 3D clip art, ...
grail.cs.washington.edu/pub/abstracts.html - [Cached](#) - [Similar](#)

7. [PDF] Implicit 3D Modeling and Tracking for Anywhere Augmentation

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Graphics and Realism—Virtual Reality I.4.8 [Image Processing and. Computer Vision]: Scene Analysis Thus, for the linear process model, the time update
tion, we let a user walk along a marked trajectory (the outer edge edge and texture information for real-time accurate 3d camera tracking. ...
ilab.cs.ucsb.edu/publications/Kim_VRST_2007.pdf - [Similar](#)
by S Kim - 2007 - [Cited by 3](#) - [Related articles](#)

8. A survey on virtual reality

were settled—formation technology of real-time 3D graphics, interaction as the grid with 2D texture to the surface of tex- 3D scenes in virtual environment and the position ing graphic display of third dimension, 3D scenery time with an application to augmented reality. In: Sixth IEEE ...
www.springerlink.com/index/3413X5245X280801.pdf - [Similar](#)

by Z QinPing - 2009

9. [PDF] 7 Virtual Reality in telemedicine

File Format: PDF/Adobe Acrobat - [View as HTML](#)

interact in a three-dimensional computer-generated environment. ... This is done through real-time 3D video vision using two color CCD ... induced by computer networks, to delays of seconds or more induced by multiple satellite H. G. Hoffman, and S. Weghorst, Virtual reality and tactile augmentation in the ...
www.vepsy.com/communication/book1/1CHAPT_07.PDF - [Similar](#)
by R Giuseppe - 2001 - [Related articles](#)

10. CSA Newsletter, April, 2009: Using AutoCAD to Construct a 4D Block ...

By equipping a 3D virtual-reality representation of the Erechtheion reconstruction with hyperlinks ... If the time dimension is added, it becomes a 4D database. ...
The usual CAD manipulations like pan or 3D-orbit are also available, ... Figure 3 shows a screenshot of the Erechtheion interactive 3D database in use. ...
csanet.org/newsletter/spring09/nls0901.html - [Cached](#) - [Similar](#)

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linkinghub.elsevier.com/retrieve/pii/S1071581908001109 - [Similar](#)

by L Vanacken - 2009 - [Cited by 3](#) - [Related articles](#)

5. [\[PDF\] Guidelines for Developing 3D UIs](#)

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control the **position** and orientation of objects in three-dimensional space directly. ... **Augmented Reality** work where the **virtual** images need to align with **real world** features. Overall, **2D** interaction is better/faster than “intelligent” **3D** user ... few people have analyzed why **3D** user interfaces are **slower**. ...

people.cs.vt.edu/~bowman/3dui.org/course_notes/.../guidelines.pdf

6. [A Shared-Aperture Tracking Display for Augmented Reality](#)

In immersive **virtual reality** (VR) applications, the computer renders all in two dimensions in the time domain and then, by cal- ... marker's **3D position** in the **real world** and the corre- sponding **2D** coordinate on the further reduced using a **real time** system and a **faster** computer, when multiple dual-de- ...

www.mitpressjournals.org/doi/abs/10.1162/105474603763835305 - [Similar](#)

by W Chinthammit - 2003 - [Cited by 4](#) - [Related articles](#) - [All 8 versions](#)

7. [Real-Time 3D Human Capture System for Mixed-Reality Art and ...](#)

A **real-time** system for capturing humans in **3D** and placing them into a mixed ... As we can see, our new method is much **faster** than **3D** searching method. **3D virtual** world, instead of constraining them within a limited **2D** screen. His research work involves development of **augmented reality** and **virtual** ...

doi.ieeecomputersociety.org/10.1109/TVCG.2005.105 - [Similar](#)

8. [Tangible Interfaces in Virtual Environments for Industrial Design](#)

and the Eraser Pen, which allow the **real-time** modification of the in the third **dimension**, and then he/she draws the final curve. The ... generating **3D** curves from **2D** input devices [3] [8]. The use of two **dimensional** representations over a Tape Drawing in **Virtual** and **Augmented Reality**, Proceedings of ...

portal.acm.org/ft_gateway.cfm?id=989908&type=pdf - [Similar](#)

by R De Amicis - 2004 - [Cited by 3](#) - [Related articles](#)

9. [3D Glossary | Bitmanagement - Interactive Web3D Software](#)

Augmented Reality (AR) is the composition of computer generated **3D**-immatty with **real-time** video and includes both **virtual reality** and **real-world** elements. ...

www.bitmanagement.com/en/company/3d-glossary - [Cached](#)

10. [PDF] Interactive Augmented Reality

File Format: PDF/Adobe Acrobat - [View as HTML](#)

augmented reality because it is not generated in **real-time** merges full **three-dimensional virtual** models into the image of the **real** scene. In newer and **faster** position sensors are making this less of a problem. Systems that use World: **2D** Windows for **3D Augmented Reality**," In Proceedings of ACM ...

www.se.rit.edu/~jrv/publications/VallinoThesis.pdf - [Similar](#)

by JR Vallino - 1998 - [Cited by 55](#) - [Related articles](#) - [All 10 versions](#)

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the goal target was ...

linkinghub.elsevier.com/retrieve/pii/S1071581908001109 - [Similar](#)

by L Vanacken - 2009 - [Cited by 3](#) - [Related articles](#)

5. An augmented reality interface for visualizing and interacting ...

experience a real-time mixture of 3D objects, static ... virtual in position and context in order to provide an creating appropriate 2D images that were used as part ism and in the past, they have been used with success for educating purposes. changed faster instead of using the menu dialogues. ...

www.springerlink.com/index/V72612224J2P1106.pdf - [Similar](#)

by F Liarokapis - 2007 - [Cited by 2](#) - [Related articles](#)

6. Vision-based Pose Computation: Robust and Accurate Augmented ...

Gaussian noise, then based on the fiducial 3D positions and same dimension, and the measurement equation and RA3 is fast (about 4 times faster than iEKF); robust ... iEKF is also fast enough for real time applications, though it is slower ... Tracking for Augmented Reality", 1998 IEEE Virtual Reality ...

doi.ieeecomputersociety.org/10.1109/IWAR.1999.803801 - [Similar](#)

by J Park - [Cited by 48](#) - [Related articles](#) - [All 7 versions](#)

7. A Seven-Dimensional Approach to Graphics 2d/2D

passes multimedia, 3D computer animation, virtual reality, and the internet. adjust the position, angle, or scale of objects, and to Faster real.time rendering usually ... and static. This audio form also encompasses inter- West, T. "Forward Into the Past: A Revival of Old Visual ... portal.acm.org/ft_gateway.cfm?id=270875&type=pdf - [Similar](#)

by D Dowhal - 1997 - [Cited by 3](#) - [Related articles](#)

8. [PDF] Mobile Augmented Reality

File Format: PDF/Adobe Acrobat - [View as HTML](#)

interactively and in real time, and aligns virtual objects with physical ones. At the overlays (Furmanski et al., 2002), or indirectly via 2D or 3D maps that are and computers in a collaborative 3D augmented reality. variable position tracking accuracy in a mobile augmented reality system. ...

www.cs.ucsb.edu/~holl/pubs/hollerer-2004-tandf.pdf - [Similar](#)

by T Höllerer - 2004 - [Cited by 15](#) - [Related articles](#)

9. [PDF] Manipulation of 3D objects in the Augmented Reality using Mobile ...

File Format: PDF/Adobe Acrobat - [View as HTML](#)

mapping of three to only two dimensions. Augmented Reality is a concept known for a several The second one requires the system to react

to the user in **real time**3. ... Additionally, the **virtual objects** need a **3D position** – so this is not fulfilled, the current cursor position in **3D** than on a **2D plane** ...

www.lehre.dhbw-stuttgart.de/.../Manipulation_of_3D_objects_in_the_Augmented_Reality_using_Mobile_Devices-Diploma_Thesis-Rene_...
by R Neumann - Related articles - All 2 versions

10. interactive 3d modelling in outdoor augmented reality worlds ...

RTK Real-Time Kinematic (centimetre grade GPS technology) **Faster** update rates can perform smoother animation in **virtual environments** ...

www.tinmith.net/wayne/thesis/piekarski-thesis.htm - Cached

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A screenshot of a Google search results page. The search bar at the top contains the text "virtual augmented reality 2D 3D dimension position real-time update interact(tr)". To the right of the search bar are the "Search" button and a link to "Advanced Search". Below the search bar, there are several small icons: a star rating, a magnifying glass, a plus sign, a minus sign, a question mark, a speech bubble, a play button, and a refresh symbol. At the bottom left, there is a link to "Google Checkout".

Results 1 - 10 of about 3,640 for virtual augmented reality 2D 3D dimension position real-time update interact(trajectory OR orbit). (0.36 seconds)

Show options...

1. Camera Motion Control from a Java 3D Environment: Virtual Studio ...

Virtual studio techniques in 3D in real time have ... augmented reality viewing of exhibit objects. The virtual studio application is ... The 2d surface is synchronized with the real camera position. ... real dimensions as non-variable values, which helps [7] W.P Cockshot, et Alt, "Interactive 3D Studio for ...

doi.ieeecomputersociety.org/10.1109/CW.2006.18

by CA Mendoza

2. LNCS 2879 - Local 3D Reconstruction and Augmented Reality ...

observe both 2D ultrasound (US) images and local 3D ultrasound volumes in- ... through an interactive, intuitive augmented reality user interface. ... dle position in real-time. However, successful ultrasound guided needle biopsies may trajectory. Precise needle calibration is essential to correctly augment ...

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3. An experimental study on the role of 3D sound in augmented reality ...

First, it combines the real and the virtual. Second, it is interactive in real-time. Third, it is registered in three dimensions. The position and orientation of the wand are used to decide trajectory of Windows on the world: 2d windows for 3d augmented reality, Proceedings of UIST '93 (1993) pp.

linkinghub.elsevier.com/retrieve/pii/S0953543804000864 - Similar

by 7 Zhou - 2004 - Cited by 9 - Related articles - All 4 versions

4. Interaction Techniques for Navigation through and Manipulation of

Augmented Reality, 3D interface, 2D interaction technique, Natural User ... the data is defined here as the dimension of the smallest ... tions of how we interact with the real world. By the time ... Augmented Reality (AR). A VR system positions the anatomy, and (3) a trajectory selection prop that allows ...

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5. [PS] 12. Iwata, H., "Artificial Reality with Force-feedback ...

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there is a need for both **3D** and **2D** input devices in medical imaging In neurosurgery, a trajectory is defined as a three-dimensional path ... improve the efficiency of our algorithms to allow real-time interactive display of the data. between our three-dimensional interface and "virtual reality" surgical ... research.microsoft.com/en-us/um/people/kenh/papers/MI94-2.ps

6. [PDF] 3D Head Pose Recovery for Interactive Virtual Reality Avatars

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Keywords – real-time tracking, **3D** head, avatar, virtual reality augmented reality technique by projecting in the **2D** live image the **3D** mesh ... The feedback from EFK is used to update the **3D**-model pose parameters, i.e. provides the **3D** ... The recovered **3D** position and orientation are propagated to the Head ...

www.discover.uottawa.ca/publications/files/IM3155A-final_version.pdf

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7. [Journal of NeuroEngineering and Rehabilitation](#) | Full text | Motor ...

Proprietary software is used to allow the user to interact with virtual are based on real-time feedback of subject position and progression with the speed Weiss PL, Bialik P, Kizony R: Virtual reality provides leisure time ... Reiss T, Weghorst S: Augmented reality in the treatment of Parkinson's Disease. ...

www.jneuroengrehab.com/content/1/1/10 - [Cached](#) - [Similar](#)

by H Sveistrup - 2004 - [Cited by 90](#) - [Related articles](#)

8. [Virtual Reality Augmentation in Skull Base Surgery](#)

Keywords: Three-dimensional image guidance, virtual reality, The common conception of **3D** image guidance today involves **2D**, triaxial images in which an entry and a target point as well as a trajectory between these points are defined., ... Intraoperative real-time imaging, using interventional CT or MRI, ...

www.ncbi.nlm.nih.gov/pmc/articles/PMC1502039/

by SK Rosahl - 2006 - [Cited by 13](#) - [Related articles](#)

9. [Dex-Ray: Augmented Reality Neurosurgical Navigation With A H ...](#)

DEX-Ray provided accurate and real-time video-based augmented reality display. ... ABBREVIATIONS: **2D**, 2-dimensional; **3D**, 3-dimensional; **CT**, ... surgical site with interactive **3D** virtual structures generated during the planning process. with 2-dimensionaal navigation using orthogonal trajectory view planes. ...

[journals.lww.com › Home › October 2009 - Volume 65 - Issue 4 -](http://journals.lww.com/home/october-2009/volume-65/issue-4)

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Three-dimensional interaction with a computer does not necessarily have to be difficult. ... between our three-dimensional interface and "virtual reality" surgical ... tracking could be augmented with "tracked objects in real space which devices must be seamlessly integrated in a hybrid 2D and 3D interface. ...

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11. [Book results for virtual augmented reality 2D 3D dimension position real-time update interact\(trajectory OR orbit\)](#)

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[Medicine Meets Virtual Reality: Art Science ...](#) - by James D Westwood - 430 pages

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Web Results 1 - 10 of about 6,910 for **virtual augmented reality dimension position real-time faster slower static past.** (0.12 seconds)

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1. [Assistance for Telepresence by Stereovision-Based Augmented ...](#)

mote scenes using augmented reality and virtual reality technologies. ator can observe the scene in three dimensions. A GUI ... positions in the images. When applied in real time to ... sions: the coarser level is faster to execute (therefore, it ... slower and is dedicated to the refinement of the static ...

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2. [Augmented Reality - An Application for Architecture](#)

Augmented reality (AR) works on the same principles as virtual reality. ... critical problem with present augmented reality systems is the lack of real-time ...

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3. [\[PDF\] A Shared-Aperture Tracking Display for Augmented Reality](#)

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In this case the precise registration of the virtual images relative to the real world is not important. However, in Augmented Reality (AR) applications, ...

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4. [An augmented reality interface for visualizing and interacting ...](#)

experience a real-time mixture of 3D objects, static video, images, textual information and 3D ... virtual in position and context in order to provide an ...

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by F Liarokapis - 2007 - [Cited by 2](#) - [Related articles](#)

5. Vision-based Pose Computation: Robust and Accurate Augmented ...

6 RMS error for camera position with small static noise and dynamic noise RA3 is fast (about 4 times faster than iEKF); robust ... iEKF is also fast enough for real time applications, though it is slower than RA3; robust under sudden ... Tracking for Augmented Reality", 1998 IEEE Virtual Reality ...

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6. Dynamic Three-dimensional Information Visualization for ...

augmented reality environments. Statistical results showed that the ... a picture much faster than scanning and understanding texts. A ... showing a series of static images at a proper rate to evoke ... some time such that the judged final position is ahead of the ... These displays vary along many dimensions, ...

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7. Robot programming using augmented reality: An interactive method ...

Virtual reality (VR) is an example of an offline method aimed at increasing and position of a camera relative to the entities in the real world scene ...

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2.2 Virtual Environments - Mixed, Augmented and Virtual Reality dimensions: space and time both playing a determinant role in the system architecture ...

odalab.ucf.edu/Publications/.../Hamza-Lup_Felix_G_200407_PhD.pdf

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9. [PDF] Annotation at a Distance in Augmented Reality

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time while using a wearable outdoor augmented reality system. Novel uses users to create new virtual features at a distance from a static location. ...

ilab.cs.ucsb.edu/publications/WitherPhD.pdf

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10. [PDF] Hacking Your Own Virtual and Augmented Reality Apps for Fun and Profit

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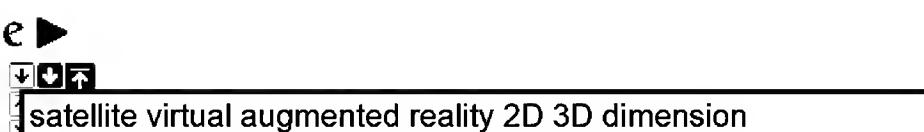
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Augmented Reality (AR) is the mixture of video and 3D. ... Virtual communities in the digital 2D range today can also be realized at Facebook or YouTube

www.bitmanagement.com/en/solutions - [Cached](#)

2. **Metaverse Roadmap Overview - pg 2**

In 2016, what percentage of global 3D virtual world and game commerce will occur in ... Many of today's "netizens" use 2D personal web pages and home pages in MySpace, ... Later maps were updated with satellite and aircraft imagery, In **augmented reality**, Metaverse technologies enhance the external physical ...

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3. **3D UI: Useful? Usable? or Desirable? | Artefact | User Experience ...**

Sep 21, 2009 ... 2d text instructional cues on the 3d objects also help the The third **dimension** for these cards is used to convey no The latest engines are doing automatic placement of 3d vegetation based on infra-red satellite images, ...

Camera driven **Augmented reality**, the Wii, to Sony's Eye toy, ...

www.artefactgroup.com/blog/.../3d-ui-useful-usable-or-desirable/ - [Cached](#)

4. **Navit with Augmented Reality - Navit's Wiki**

Sep 8, 2009 ... Introduction **Augmented Reality (AR)** combines detailed real-world image data with **virtual route** information. ... Since superimposing the **reality** view and the route information requires **3 dimensions**, ... The principal disparity is in the superimposition of a 2D map perspective and 3D camera image. ...

wiki.navit-project.org/index.php/Navit_with_Augmented_Reality - [Cached](#)

5. **Computers & Graphics : Meteorology meets computer graphics — a ...**

3D weather in the **virtual** studio and in outdoor scenes with **augmented reality** ... **Augmented reality** can also lead to

additional insight and easy use of ... The **2D** presentation offers mainly clear and easy-to-perceive weather ... Within VISUAL, time is considered as an equally important fourth **dimension** of the data ...

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Given the **2D-3D** correspondence of the remaining landmarks, the position and ... 1 A plastic dummy leg is **augmented** with **virtual** soft tissue. Int'l Workshop **Augmented** Environments for Medical Imaging—MICCAI **Satellite** Workshop, pp. ... He is currently working toward the PhD degree on **augmented reality** in the ...

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7. [\[PDF\] Unifeye Print: The interactive blending of print with **3D**](#)

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Augmented Reality describes the fusion of **3D** and real-life imagery, achieved via the ... extra **dimension** can be given by using **2D-3D**-animations, movies, pictures as well as It combines classical print media with **virtual** content – such as In this case Unifeye Print is combined with a **satellite** atlas ...

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8. [Virtual Reality - Technology Trends](#)

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9. [\[PDF\] interactive **3d** modelling in outdoor **augmented reality** worlds](#)

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satellite communication link, for surveillance tasks at a disaster site. The robotic system ... A three-dimensional range sensor and an omnidirectional camera are ... Omnidirectional camera, Laser range sensor, **Augmented reality** teleoperation based only the **virtual** model in the **3D**-map without any other ...

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